

I Claim:

1. A milling tool, comprising:
a body adapted for mounting on a rotating shaft of a milling machine, said body having a plurality of sides and at least two cutting planes formed on each of said plurality of sides.
2. The tool of Claim 1, wherein at least one of said cutting planes has an arcuate contact surface for engaging a work piece being milled.
3. The tool of Claim 1, wherein at least one of said cutting planes has a straight contact surface for engaging a work piece being milled.
4. The tool of Claim 1, wherein said at least two cutting planes are integrally connected to each other by a connecting plane extending at an angle in relation to at least one of said at least two cutting planes.
5. The tool of Claim 1, wherein said at least two cutting planes are integrally connected to each other by a connecting plane extending at an obtuse angle in relation to at least one of said at least two cutting planes.
6. The tool of Claim 1, wherein said body comprises a flat top surface and a flat bottom surface, and wherein said sides extend at a right angle between said top surface and said bottom surface.
7. The tool of Claim 1, wherein said body comprises a multi-plane top surface and a flat bottom surface, and wherein said sides extend at a right angle to said bottom surface.
8. The tool of Claim 7, wherein the cutting planes are staggered in a feeding direction and in a cutting direction.
9. The tool of Claim 1, wherein each of said at least two cutting planes is defined by a first edge, a second edge extending in parallel relationship to said first edge, a third edge extending at

an angle between said first edge and said second edge, and a fourth edge extending in a non-parallel relationship to said third edge, between said first edge and said second edge.

10. The tool of Claim 9, wherein the first edge, the second edge, the third edge and the fourth edge are defined by straight lines.

11. The tool of Claim 9, wherein said first edge and said second edge are defined by arcuate lines.

12. A cutting tool, comprising:

a cutting body adapted for mounting on a rotating shaft and capable of being rotated during a process of cutting a work piece, said cutting body having a plurality of sides and at least two cutting planes formed on each of said plurality of sides, and wherein at least one of said cutting planes has an arcuate contact surface for engaging a work piece being milled.

13. The tool of Claim 12, wherein said at least two cutting planes are integrally connected to each other by a connecting plane extending at an angle in relation to at least one of said at least two cutting planes.

14. The tool of Claim 12, wherein said at least two cutting planes are integrally connected to each other by a connecting plane extending at an obtuse angle in relation to at least one of said at least two cutting planes.

15. The tool of Claim 12, wherein said body comprises a flat top surface and a flat bottom surface, and wherein said sides extend at a right angle between said top surface and said bottom surface.

16. The tool of Claim 12, wherein each of said at least two cutting planes is defined by a first edge, a second edge extending in parallel relationship to said first edge, a third edge extending at

an angle between said first edge and said second edge, and a fourth edge extending in a non-parallel relationship to said third edge, between said first edge and said second edge.

17. The tool of Claim 12, wherein the cutting planes are staggered in a feeding direction and in a cutting direction.

18. A method of forming a cut on a work piece, comprising the steps of:

providing a cutting body having a plurality of sides and at least two cutting planes formed on each sides and wherein said cutting planes are staggered in a feeding direction and in a cutting direction;

rotating said cutting body such that the cutting planes contact the work piece, while creating at least two cutting splinters with each quarter-turn revolution of said cutting body.

19. The method of Claim 18, further comprising the step of providing a cutting body having a plurality of cutting planes formed on each side of the cutting body, thereby creating a plurality of cutting splinters with each quarter-turn revolution of the cutting body.

20. The method of Claim 18, wherein each of said cutting planes is defined by a first edge, a second edge extending in parallel relationship to said first edge, a third edge extending at an angle between said first edge and said second edge, and a fourth edge extending in a non-parallel relationship to said third edge, between said first edge and said second edge.

21. The method of Claim 18, wherein at least of said cutting planes has an arcuate cutting edge.

22. The method of Claim 18, wherein at least one of said cutting planes has a straight cutting edge.